Note "On the Positions of 166 Stars around Nova Geminorum" &c. By F. A. Bellamy.

In a letter received from Father Hagen he states that he has satisfied himself that the two stars Nos. 57 and 58, referred to in *Monthly Notices*, lxiii. p. 520, are Oxford 158 and 17 respectively. In the Georgetown College Observatory Circular for Nova *Geminorum* the figures on page 4 for $\Delta\delta$ for Nos. 57 and 58 had been partly interchanged; they should be $+9''.4$ and $-1''.7$ instead of $+1''.4$ and $-9''.7$; the chart is correct. The Hagen number for Oxford 37 should be 27; the figure 2 had dropped out after passing the proof sheet. Further, he identifies Oxford 151 as Hagen 72.

University Observatory, Oxford:
1903 *October* 21.

Measures of Southern Double Stars made at Shanghai, 1902–1903. By James L. Scott.

The following measures of southern doubles were made with the same 5-inch refractor as those published in vol. lix. of the *Monthly Notices*. Bright wire illumination was used throughout, and nearly all the stars were measured within an hour of the meridian.

Star's Name.	R.A. h m	S. Dec. ° ′	P.A. ° ′	Dist. ″	No. of Nights.	Mags.	Date.
O.S. 51	0 3	14 51	108 4	10·1	2	9, 9	1902·850
β 391 (κ¹ Sculptoris)	0 4	28 32	272 8	1·10	2	6·5, 6·5	·847
h 3377	0 28	26 38	58 1	19·1	2	6, 9·5	·854
h 3375	0 29	35 32	166 9	6·05	2	6·5, 9·4	1903·003
h 3395	0 41	42 27	76 4	7·40	3	8·5, 9	1902·854
C.G.C. 784 ...	0 47	23 9	268 5	2·15	2	7·5, 8	1903·008
Washington I. ...	0 48	25 19	12 7	5·70	2	6·7, 8·5	1902·850
C.G.C. 815 ...	0 48	25 31	27 0	13·2	1	7, 7·4	·852
LL. 1662... ...	0 53	16 13	215 2	6·31	2	8, 8·4	·882
Cord. Z.C. 1^h, 333	1 14	27 2	312 0	2·05	2	8, 8·5	·854
h 2036	1 15	16 20	15 1	1·50	3	7, 7·3	·862
h 3447 (τ Sculptoris)	1 32	30 25	97 0	1·80	3	6, 7	·901
h 3461	1 41	25 33	53 7	4·70	3	5, 9·3	·901
292 Ceti	1 54	23 24	305 0	8·44	1	7, 7·4	·895
Hastings I. ...	2 11	18 42	353 6	2·05	3	8, 8·5	1902·906

Star's Name.	R.A. h m	S. Dec. ° ′	P.A. ° ′	Dist. ″	No. of Nights.	Mags.	Date.
C.G.C. 2739 ...	2 30	21 59	97 8	14·7	1	7·3, 9	1902·912
h 3527	2 40	40 58	44 1	2·01	2	7, 7	·931
h 3532	2 45	37 50	147 1	5·40	2	6·8, 8·5	·939
β 741	2 53	25 22	167 7	1·48	3	8, 8·4	·939
h 3565	3 14	18 55	115 2	6·24	2	5·8, 8·5	·950
h 3596	3 45	32 5	135 9	8·02	2	8, 8·3	·964
f Eridani ...	3 45	37 56	205 4	7·40	2	5, 5·5	·964
β 1004	3 58	34 46	141 2	1·90	3	7·3, 7·8	·983
β 184	4 23	21 43	259 9	1·25	2	7, 8	1903·137
h 3750	5 16	21 20	280 1	3·50	2	4·8, 9·5	·137
h 3752	5 18	24 53	101 4	3·05	2	5·5, 7·5	·137
β 757	7 9	36 22	69 5	3·01	2	6·5, 9·4	·162
Jacob 4	7 15	36 35	209 6	2·90	2	9·8, 10	·162
h 3950	7 15	21 52	345 4	4·14	2	8·3, 8·3	·162
h 3949	7 15	30 37	77 8	2·98	2	8, 8·4	·162
Σ 1104	7 24	14 47	332 7	2·35	2	7, 9	·162
P. VII., 124 ...	7 25	31 38	52 0	8·60	1	6·5, 7·5	·164
σ Argûs	7 26	43 6	74 2	22·3	1	3, 9	·164
Howe 8	7 49	34 27	280 1	2·58	2	5, 9	·162
Σ 1157	7 49	2 32	245 9	1·20	2	8, 8	·260
β 583	8 4	6 25	69 8	1·75	2	9, 9·5	·167
β 334	8 4	21 51	352 4	2·80	2	8, 9	·167
O.S. (O.A. 8124)	8 5	26 50	261 2	3·30	2	8·5, 9·3	·162
h 4063	8 11	37 0	349 3	18·1	1	7·5, 9·3	·260
β 454	8 12	30 37	15 6	2·50	2	6·8, 9	·293
h 4093	8 23	38 43	122 9	8·05	2	7, 7·5	·260
Σ 1295	8 51	7 35	359 2	4·30	2	7, 7·3	·290
β 210	8 52	17 3	183 6	2·70	2	7, 7	·293
C.G.C. 12,339 ...	8 58	33 7	153 0	13·7	1	7·3, 7·8	·293
Σ 1316 (A–C) ...	9 2	6 44	169 4	7·50	2	8, 10	·290
h 4200	9 16	31 20	72 8	2·59	2	7·8, 8·5	·337
ζ Antliæ	9 26	31 27	212 5	8·00	1	5·8, 6·5	·290
h 4224	9 32	30 47	117 5	7·01	2	8, 9	·337
h 4249	9 44	34 33	126 5	4·16	2	8, 8	·337
C.G.C. 13,722 ...	9 58	17 30	273 6	21·6	1	6·5, 7·4	·337
β 217	10 2	24 14	279 4	1·95	2	8, 8	·337
β 25	10 17	9 16	174 3	1·80	2	8·3, 8·8	·348
s Velorum ...	10 28	44 31	217 4	13·3	1	6·5, 6·8	·337
Σ 1474	10 43	14 44	196 5	6·77	2	6·7, 7	1903·293

Star's Name.	R.A.	S. Dec.	P.A.	Dist.	No. of Nights.	Mags.	Date.
	h m	° ′	° ′	″			
Σ 1476	10 44	3 29	2 3	2·54	2	7, 8	1903·348
LL. 21,178 ...	10 57	15 9	16 2	2·90	2	8, 8·5	·364
Howe 15 ...	10 58	26 58	335 2	2·10	2	7·5, 9·3	·348
h 4423	11 12	45 20	275 2	2·20	3	7, 7·3	·348
Jacob 7	11 25	23 55	78 3	8·51	2	6, 8·5	·348
N. Hydræ ...	11 27	28 43	209 5	9·24	2	5·5, 5·5	·293
h 4455	11 32	33 10	243 7	3·83	2	6·3, 9·4	·293
C.G.C. 15,942 ...	11 34	37 25	95 7	16·8	1	7, 9	·337
Howe 16 ...	11 35	36 52	103 6	3·31	2	8, 8·5	·364
β Hydræ ...	11 48	33 21	352 6	1·76	3	5, 6·5	·348
h 4481	11 52	21 59	197 4	3·25	2	8, 8	·389
h 4495	12 0	32 23	318 1	6·58	1	6·5, 9	·389
C.G.C. 16,612 ...	12 3	34 0	202 7	3·86	2	6·5, 9	·348
Jacob 8	12 5	34 8	20 5	3·07	2	6·5, 8·8	·364
LL. 22,863 ...	12 6	16 14	285 4	6·07	2	6·5, 9	·348
D Centauri ...	12 9	45 10	241 5	3·10	2	5·5, 7	·397
δ Corvi	12 25	15 57	214 3	24·40	1	3, 8·5	·389
γ Virginis ...	12 37	0 54	330 1	5·88	3	3, 3	·397
h 4556	12 49	27 25	81 9	6·41	1	7, 8·5	·397
γ 4563	12 55	33 5	236 7	6·80	2	7·5, 9	·364
β 342	13 10	18 23	33 8	3·96	3	8, 8·5	·457
O.A. 12,867 ...	13 21	22 43	356 2	1·60	2	8·8, 9	·457
β 114	13 29	8 6	142 8	1·50	2	8, 8	·449
h 4608	13 36	33 28	178 6	4·52	1	7·5, 7·5	·397
h 4617	13 45	29 22	260 2	5·02	2	7·5, 9·5	·457
κ Centauri ...	13 46	32 30	109 5	7·91	1	4·8, 6	·457
β 343	13 46	31 7	120 7	1·02	3	6, 7	·457
Lac. 5751 ...	13 48	31 36	3 8	14·32	1	7, 8·5	·485
Σ 1788	13 49	7 34	79 5	2·70	2	6·8, 8·5	·444
h 4661	14 6	28 51	228 7	4·50	1	9, 9	·485
Howe 28 ...	14 12	27 3	119 7	3·20	2	9·3, 9·3	·449
h 4672	14 14	42 36	304 0	4·00	2	6·5, 9·5	·449
Σ 1837	14 19	11 13	300 5	1·42	2	7, 8·5	·449
β 117	14 26	15 11	95 9	2·30	2	8, 9	·485
h 4690	14 31	45 41	25 6	19·2	1	5·5, 8	·485
Howe 29	14 31	37 6	213 6	4·20	2	8, 8·5	·512
54 Hydræ ...	14 40	25 1	130 0	8·70	1	5·5, 7·5	·512
β 106 (A–B) ...	14 44	13 44	342 1	1·80	2	5·5, 6·5	·449
β 347 (A–C) ...	14 48	32 5 3	242 7	58·1	1	6, 9·8	1903·485

Star's Name.	R.A. h m	S. Dec. ° ′	P.A. ° ′	Dist. ″	No. of Nights.	Mags.	Date.
h 4718	14 51	34 58	63 3	2·20	2	7, 9	1903·457
P. XIV., 212 ...	14 52	20 57	294 9	16·76	2	6, 8	·449
h 4722	14 53	30 18	339 8	8·70	2	7·5, 9	·512
h 4727	14 57	27 26	36 8	7·62	2	8·3, 8·3	·485
Howe 31 ...	15 7	36 52	46 4	6·50	2	7·2, 7·5	·496
Anon.	15 10	36 45	197 7	20·7	1	7, 7·5	·496
β 227	15 13	23 54	175 1	2·10	2	7, 8·5	·496
h 4783	15 23	19 48	281 6	10·93	1	6·8, 8·5	·485
h 4776	15 23	41 34	225 6	5·40	2	7, 8·5	·457
h 4788	15 29	44 37	1 5	2·20	2	5, 8	·496
Cord. Z.C. 15^{h}·2046	15 31	31 11	44 7	2·05	2	8, 8·5	·575
Anon.	15 36	14 30	270 5	5·40	2	7·5, 8	·575
Howe 37 ...	15 38	41 30	350 6	3·80	2	6·5, 8·5	·594
β 35	15 38	15 41	100 6	2·60	2	7, 9	·594
ξ Lupi	15 50	33 40	48 6	10·80	1	5·5, 6	·485
ξ Scorpii (AB–C)	15 59	11 6	63 2	7·10	2	4·5, 7·5	·600
β 120 (C–D) ...	16 6	19 12	48 7	2·05	2	7, 8	·594
h 4836	16 11	34 35	298 7	4·25	2	8, 8·5	·600
h 4848	16 17	32 58	154 5	6·09	1	7, 7·5	·594
h 4850	16 18	29 28	350 6	6·25	1	6, 6·5	·659
ρ Ophiuchi ...	16 20	23 13	353 4	3·35	2	5·5, 6	·659
α Scorpii... ...	16 23	26 13	274 7	3·30	2	1, 7·5	·662
P. XVI., 236 ...	16 51	19 23	230 5	4·85	2	6·8, 8	·643
Howe 45... ...	17 0	35 45	23 4	5·15	2	8, 8·5	·643
36 Ophiuchi ...	17 9	26 27	188 8	4·15	2	5·3, 5·5	·594
38 Ophiuchi ...	17 11	26 31	337 5	5·97	2	6·5, 9	·594
β 416	17 12	34 53	287 5	2·25	5	6, 8	·659
O.S. (Ophiuchi) ...	17 12	16 58	290 3	16·9	1	8, 9·3	·643
β 126	17 14	17 39	262 5	2·06	2	6·5, 7·5	·668
Howe 47... ...	17 23	33 38	324 5	4·60	2	7, 9·5	·659
Lac. 7465 ...	17 43	30 31	188 8	10·79	1	7, 8	·600
h 5003	17 53	30 15	104 5	5·37	2	5·3, 7	·600
τ Ophiuchi ...	17 57	8 11	258 7	2·02	2	5·5, 6	·600
h 5014	17 59	43 25	241 6	1·62	3	6, 6	·643
Howe 50. ...	17 59	36 35	3 8	3·22	2	7·8, 8·5	·717
70 Ophiuchi ...	18 0	N 2 32	194 4	1·75	6	4, 6	·693
h 5023	18 4	40 27	277 5	8·61	1	8, 8·3	·659
β 245	18 4	30 45	353 4	4·20	2	6, 8	1903·643

Star's Name.	R.A. h m	S. Dec. ° ′	P.A. °	Dist. ″	No. of Nights.	Mags.	Date.
β 132	18 5	19 52	218 6	elongated	2	7, 7·3	1903·643
β 759 (A−B)	18 5	39 22	120 7	1·70	3	8·5, 9	·717
(AB−C)			147 8	15·2	1	9, 9·3	·717
β 639 (AB−C) ...	18 13	18 40	52 0	17·4	1	7, 7·5	·668
Stone 10,006 ...	18 16	42 50	137 9	3·50	2	8·5, 8·8	·668
Jacob 10... ...	18 19	20 36	288 0	1·85	3	5, 8·5	·668
Cor. Z.C. 18h, 1122	18 19	27 28	358 6	5·52	2	8, 8	·643
β 133	18 22	26 42	260 3	1·70	2	7·5, 7·5	·643
Hh. 567	18 23	25 6	102 0	3·05	2	7·5, 7·8	·643
κ Cor. Australis ...	18 26	38 48	358 8	21·30	1	6, 7	·643
O.S. (Lac. 7763)...	18 28	34 54	137 1	1·75	3	7·8, 8·3	·698
λ Cor. Australis ...	18 37	38 25	214 3	29·6	1	5·5, 9·3	·717
Σ 2373	18 40	10 36	338 5	3·65	2	7, 8	·717
Lac. 7947 ...	18 54	37 12	282 5	12·30	1	7·5, 7·5	·698
Washburn 33 ...	18 56	28 47	58 1	2·70	2	8, 8·8	·668
γ Cor. Australis...	19 0	37 12	134 0	1·90	6	5, 5	·676
South 710 ...	19 0	16 25	0 2	6·28	1	5·8, 8·9	·659
h 5094	19 5	34 0	205 2	15·6	1	7, 7	·643
Cordoba 55 ...	19 8	27 29	329 5	2·25	3	8, 8·3	·698
O. Arg. S. 19,295	19 8	16 11	160 8	5·32	2	8·5, 8·5	·698
h 1381?	19 12	16 7	15 6	15·5	1	6, 7·5	·698
h 596	19 12	16 9	14 1	6·09	2	7·3, 7·8	·698
h 5113	19 19	29 30	164 6	16·5	1	6, 9·3	·698
β 142	19 22	12 21	337 6	1·60	3	8, 8	·698
H. 119	19 24	27 11	140 1	7·47	1	6, 8·8	668
LL. 37,207 ...	19 33	10 22	323 2	3·65	2	7·3, 9	·728
O.S.	19 42	22 4	5 2	1·65	2	7·8, 8·3	·704
P. XIX., 365 ...	19 57	0 28	294 4	2·15	2	8, 8·5	·734
Cord. Z.C. 20h, 20	20 3	39 1	261 5	3·40	2	9, 9·3	·704
h 5178	20 7	34 25	9 4	2·85	2	7, 8·5	·704
Dunlop 230 ...	20 11	40 30	116 3	9·65	1	7·3, 7·5	·668
β 762	20 11	32 55	303 9	2·30	2	8, 8·3	·704
Cord. Z.C. 20h, 417	20 14	27 30	52 2	2·45	2	9, 9·5	·728
A.Oe2 20,449–50	20 16	18 45	108 6	2·40	2	8, 8·5	·704
Lac. 8390 ...	20 19	40 20	320 5	30·8	1	8, 8·5	·734
π Capricorni ...	20 21	18 36	145 9	3·30	2	5, 9	·717
Howe O.A. 20,494	20 21	26 57	52 4	2·90	2	8·5, 9	·734
ρ Capricorni ...	20 23	18 13	169 2	2·75	2	5, 7·5	·717
Jacob 11... ...	20 27	40 54	223 8	4·30	2	7·5, 8·5	1903·717

Star's Name.	R.A.	S. Dec.	P.A.	Dist.	No. of Nights.	Mags.	Date.
	h m	° ′	° ′	″			
h 1537	20 31	15 40	20 8	3·30	2	8·8, 9·5	1903·720
h 5226	20 43	27 46	66 6	19·1	1	7·5, 8·5	·720
C.G.C. 29,052 ...	21 4	23 37	303 2	8·27	1	8, 9	·717
h 5252	21 7	15 25	319 7	3·53	2	8, 8·5	·704
β 767	21 21	42 59	140 6	2·30	2	5·8, 9	·720
LL. 41,705 ...	21 22	13 52	133 3	2·85	2	8, 9	·734
C.G.C. 29,568 ...	21 35	18 53	66 1	5·03	2	8, 9·4	·717
η Piscis Australis	21 55	28 56	116 6	1·85	3	6, 6·5	·717
29 Aquarii ...	21 57	17 27	242 6	3·90	2	7, 8	·717
β 170	22 3	18 58	58 8	1·65	3	8·5, 8·5	·720
h 5319	22 6	38 48	122 7	2·00	2	8, 8	·720
South 808 ...	22 19	20 52	49 9	7·09	2	7, 8	·734
		N					
Σ 2900 (AB – C)	22 19	20 21	325 2	67·44	2	6, 9·3	1902·956
ζ Aquarii ...	22 24	0 32	319 7	3·29	2	4·5, 4·6	1903·720
h 5356	22 34	28 52	63 2	3·10	2	7·8, 8·5	·737
Σ 2928	22 34	13 8	313 3	4·18	2	8·8, 8·8	·720
Σ 2944 (A – B) ...	22 43	4 45	258 8	3·16	2	7, 8·3	1902·953
γ Piscis Australis	22 47	33 24	267 6	3·65	2	4·5, 8·5	1903·720
Σ 3008	23 19	9 2	237 4	3·89	2	7·5, 8	·720
h 5417	23 39	26 48	320 9	8·95	2	6, 9·5	·734
ι^2 Aquarii ...	23 41	19 14	138 2	5·90	2	5·5, 7	·720
		N					
Σ 3041 (A – C) ...	23 43	16 31	351 8	66·11	2	7·3, 8	1902·964
„ (A – B) ...			178 1	3·32	2	7·3, 8	·964
Dunlop 253 ...	23 49	27 36	269 6	6·96	2	6·8, 7·5	1903·734
		N					
Σ 3050	23 54	30 10	214 6	2·50	2	6, 6	1902·983

Shanghai: 1903 *September.*